

PRODUCTION OF 1-HEXENE

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Abstract of JP10007593

PROBLEM TO BE SOLVED: To produce 1-hexene without separating the by-produced polymer from the system while preventing the clogging of the apparatus by trimerizing ethylene in the presence of a chromium-based catalyst and introducing a deactivation agent into the system at a specific temperature to deactivate the catalyst.

SOLUTION: 1-Hexene useful as a comonomer of a linear low-density polyethylene or a raw material for a plasticizer can be produced by trimerizing ethylene in the presence of a chromium-based catalyst composed of a chromium compound and an alkyl metal compound, keeping the reaction product at 85-180 deg.C after the trimerization reaction and introducing 3-2,000mol-equivalent (based on the total molar number of metals in the chromium-based catalyst) of a deactivation agent into the treating system to effect the deactivation of the chromium-based catalyst.

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